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(71)Applicant : MITSUBISHI RAYON CO LTD

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(72)Inventor : MASUZAWA TOKIHIKO
KAGEYAMA YOSHITAKA
TOMITA NORIZOU

(54) OPTICAL DIFFUSER

(57)Abstract:

PURPOSE: To obtain approximately uniform surface illumination by disposing plural thin-layer bodies each having a specular surface in such a manner that said bodies are spaced from each other so as not to superpose on each other.

CONSTITUTION: An optical transmission body is formed with optical waveguides by disposing in parallel the thin-layer bodies 1 each consisting of a film of polyester, etc. deposited thereon with a metal by vapor deposition and having the specular surface in such a manner that said bodies are spaced from each other. A light incident face 2 which is one end of the optical diffuser and a light exit face 4 which is the other end face are both inclined with respect to the surface where the thin-layer bodies 1 each having the specular surface spread. The area of the face 3 is made substantially larger than the area of the face 2. The light advances in an arrow direction between the bodies 1 and is emitted from the face 3 when a long-sized light source such as fluorescent lamp is disposed along the face 2. The spaces between the bodies 1 at the face 2 and the face 3 are made equal and therefore the quantity of the light emitted from the face 3 is approximately equal to the quantity of the incident light if the light of the equal quantity is made incident to the

